PLDN UX Linked Data Challenge - De Omgevingswet: one click on the map…

Specific challenge introduction

Linked Data promises significant advantages when it comes to the data integration. However, what if the challenge is to integrate almost all the governmental data in the Netherlands to allow automated decision-making about spatial planning?

Recently the Dutch government has initiated an effort wich aims to simplify and bring together 26 existing laws that have to do with the living environment. This endeavour is called the New Environmental Act (dutch De Omgevingswet).

But what is wrong with the existing regulation? The problem is that it consists of dozens of hundreds of laws and rules for rural and urban infrastructure, environmental, natural and water objects. Each of these rules, in turn, has its own principles, methods and requirements. Therefore, the legislation has become too complicated for the people who work with it. Simply put, it takes too much time to make a decision about a certain spatial project. And the government wants to minimise this time. Ideally, the users should be provided with the information about required permits just in one click on the map.

The Act will come into effect in 2019. What does it mean for citizens, businesses and governments?

For the government, the Act requires an understanding of the various local interests in the area. Apart from this, the rules about the environment planning should be formalised across different branches of the government.

In the case of citizens and businesses, the Act will create a one-stop access point to all the information required for starting a project or an activity. This will significantly ease the process of applying for permits and it will speed up the decision-making process.

For companies, the Act will save time and resources allocated to the research on environment components (for example, soil sampling requered by a permit). The Act will minimise such requirements.

Available datasets and potentially other data sources

LD resources:
• Datasets of the Linked Data Platform Kadaster https://data.pdok.nl/datasets
• Ruimtelijkelannen as LD https://data.test.pdok.nl/datasets/ruimtelijke-plannen
• Bag data as LD http://almere.pilod.nl/sparql
• Basisregistratie Topografie as LD https://brt.basisregistraties.overheid.nl/
• Basisregistratie Kadastrale Kaart as LD https://brk.basisregistraties.overheid.nl/

Non-LD resources:
- Dataportaal Nederlandse overheid https://data.overheid.nl/
- Rijkswaterstaat nationaal georegister http://geoservices.rijkswaterstaat.nl/services-index.html
- Centraal Bureau voor de Statistiek http://opendata.cbs.nl/
- Nationaal geo register http://nationaalgeoregister.nl/
- Kadastrale informatie (PDOK) https://data.pdok.nl
- Ruimtelijke plannen http://www.ruimtelijkeplannen.nl/web-roo/roo/?
- Boomregister http://boomregister.nl/aanbieding-boombasis/

Question(s) for which we would like to see (an) answer(s)

From the point of view of the government:
- *Which rules are applicable to a particular case?*
- *How to find the data related to a particular permit?*
- *What governmental agency does own this data?*

From the point of view of the citizens and companies/business:
- *Can I build a house here?*
- *Can I build a wind turbine in my back yard? If no, where is it possible then?*
- *I want to start a nightclub. Where are the possible locations? What documents are required to obtain the permission?*

Possible approach and tooling for developing a prototype

We expect a map-based application that helps in answering the given questions. You are free to use any tools and software to win the prize.

Contact information/ Contactgegevens

Voor deze specifieke challenge (Kadaster – Omgevingswet/New Environmental Act):
Stanislav.Ronzhin@kadaster.nl
r.l.g.lemmens@utwente.nl